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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,432	10/01/2003	Ananth Madhavan	2566-210	5660

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EXAMINER

BASHORE, ALAIN L

ART UNIT	PAPER NUMBER
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1762

DATE MAILED: 04/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/674,432

Applicant(s)

MADHAVAN ET AL.

Examiner

Alain L. Bashore

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 26 January 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-51 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |                                                                                                                        |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                                                       | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## **DETAILED ACTION**

### ***Specification***

1. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01. The current status of a hyperlink does not mitigate the status at the time of filing or re-activation at a later date, all of which could be inferred to as improper incorporation by reference.

2. The incorporation of essential material in the specification by reference to an unpublished U.S. application, foreign application or patent, or to a publication is improper. Applicant has indicated on the record that the use of endnotes in the specification is an incorporation by reference.

Applicant is required to amend the disclosure to include the material incorporated by reference, if the material is relied upon to overcome any objection, rejection, or other requirement imposed by the Office. The amendment must be accompanied by a statement executed by the applicant, or a practitioner representing the applicant, stating that the material being inserted is the material previously incorporated by reference and that the amendment contains no new matter. 37 CFR 1.57(f).

The endnotes are required to be incorporated into the specification. No new matter is to be entered. Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 1, 3-4, 9-10, 14, 16-17, 22-23, 27, 29-30, 35-36, 40, 42-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the independent claims there is claimed "investment institution" which is vague and indefinite. What is considered an investment institution varies from time to time. The meets and bounds of what is and is not included as such must be set forth.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1, 6-8, 12-14, 19-21, 25-27, 32-34, 38-41, 47-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noser et al in view of Vanfladern et al.

Noser et al discloses collecting security transaction data for a pre-selected period of time for a plurality of investment institutions (para 0037), said transaction data including identity of securities being traded, transaction order sizes, execution prices and execution times (para 0085-para 0086). The transaction data is grouped into a plurality of orders (time stamp data) and the transaction costs are estimated for each investment institution where the data is stored.

Noser et al does not disclose calculating a plurality of cost benchmarks for each of said plurality of orders and where the estimating transaction costs for each institution is further relative to the cost benchmarks.

Vanfladern et al discloses time stamp data as related to benchmarks for programming applications (col 12, lines 18-36).

It would have been obvious to one with ordinary skill in the art to include calculating a plurality of cost benchmarks for each of said plurality of orders and where the estimating transaction costs for each institution is further relative to the cost benchmarks because Vanfladern et al teaches benchmarks are important to collection of internal data to testing (col 1, lines 55-67).

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Regarding the specific benchmarks claimed, it is the examiner's position that each is well known per se in the art. As such, one with ordinary skill in the art would utilize each for the general purpose of accounting as substitution of one benchmark for another, in absence of unexpected or unobvious results .

7. Claims 2-5,9-11,15-18, 22-24, 28-31, 35-37, 42-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noser et al in view of Vanfladern et al as applied to claims above, and further in view of Werner (paper entitled "NYSE Execution Costs").

Noser et al and Vanfladern et al do not disclose a regressing step.

Werner discloses a regression step (p 23-30).

It would have been obvious to one with ordinary skill in the art to include a regression step because Werner teaches that regression analysis for purposes of controlling variables likely to influence spreads (p23).

### ***Response to Arguments***

8. Applicant's arguments filed have been fully considered but they are not persuasive. What is an "investment institution" is dependent on regulatory definitions that change from time to time, and country to country. No meets and bounds are given in

the specification, and applicant's definition as set forth in the remarks section is not originally presented by the specification.

Noser's agents include investment institutions and rankings per se.

The term "benchmark" is understood as being defined in the broadest sense as a standard of measurement.

### ***Conclusion***

**9. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

**10.** Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alain L. Bashore whose telephone number is 571-272-6739. The examiner can normally be reached on about 7:30 am to 5:00 pm (Mon. thru Thurs.).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Regarding all Class 705 applications, the management contact regarding examination is: Vincent Millin (SPE, art unit 3624) at 571-272-6747.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Alain L. Bashore  
Primary Examiner  
Art Unit 1762